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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/505,451	09/01/2004	Tsuneo Noguchi	256917US3PCT	3202
22850	7590 12/16/2005		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			CUEVAS, PEDRO J	
1940 DUKE STREET ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER	
ALLA IIII	111, VII 2251		2834	
			DATE MAILED: 12/16/200	5

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	- Har
		10/505,451	NOGUCHI, TSUNEO	ı
	Office Action Summary	Examiner	Art Unit	
		Pedro J. Cuevas	2834	•
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover shee	t with the correspondence addre	ess
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Status				
2a) <u></u> ☐	Responsive to communication(s) filed on <u>01 Sec</u> This action is FINAL . 2b) This Since this application is in condition for allower closed in accordance with the practice under E	action is non-final.		erits is
Dispositi	ion of Claims			
5)□ 6)⊠ 7)□ 8)□ Applicati	Claim(s) 1-4 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-4 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or fon Papers The specification is objected to by the Examine The drawing(s) filed on 01 September 2004 is/a Applicant may not request that any objection to the	r election requirement. r. are: a)⊠ accepted or l	b)⊡ objected to by the Examin	er.
111	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex			
	inder 35 U.S.C. § 119	animer. Note the attac	ned Office Action or form PTO-	152.
12)⊠ a)l	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureausee the attached detailed Office action for a list	s have been received. s have been received i rity documents have be u (PCT Rule 17.2(a)).	n Application No een received in this National Sta	age
2) 🔲 Notic 3) 🔯 Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 9/1/04, 5/9/05.	Paper	ew Summary (PTO-413) No(s)/Mail Date of Informal Patent Application (PTO-15	52)

Application/Control Number: 10/505,451

Art Unit: 2834

DETAILED ACTION

Page 2

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 2. Claims 1-4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Where applicant acts as his or her own lexicographer to specifically define a term of a claim contrary to its ordinary meaning, the written description must clearly redefine the claim term and set forth the uncommon definition so as to put one reasonably skilled in the art on notice that the applicant intended to so redefine that claim term. *Process Control Corp. v. HydReclaim Corp.*, 190 F.3d 1350, 1357, 52 USPQ2d 1029, 1033 (Fed. Cir. 1999).

The term "Raynolds number" in claims 1 and 2 is used by the claim to mean "Reynolds number", while the accepted meaning is "Reynolds number." The term is indefinite because the specification does not clearly redefine the term.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,463,257 A to Yea.

Application/Control Number: 10/505,451 Page 3

Art Unit: 2834

Yea clearly teaches the construction of a wind power machine comprising:

a plurality of blades (22) at every constant angles centering on a vertical rotating shaft (21) in a face orthogonal to the vertical rotating shaft;

wherein the blade is constituted by a blade type having a high lift coefficient, a low Reynolds number, and a notch portion (7) formed at a rear end portion of a lower face of the blade.

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 2-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,463,257 A to Yea.

Yea discloses the claimed invention except for:

the Reynolds number falling in a range of 30,000 through 3,000,000;

the lift coefficient falling in a range of 1.0 through 1.4; and

the notch portion being formed from a position of 35% through 45% of a chord length from a front edge thereof over rear edge thereof.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to develop a blade with:

- a Reynolds number falling in a range of 30,000 through 3,000,000:
- a lift coefficient falling in a range of 1.0 through 1.4; and

the notch portion being formed from a position of 35% through 45% of a chord length from a front edge thereof over rear edge thereof;

since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller*, 105 USPQ 233.

Conclusion

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Pedro J. Cuevas whose telephone number is (571) 272-2021. The examiner can normally be reached on M-F from 8:30 - 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren Schuberg can be reached on (571) 272-2044. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Pedro J. Cuevas December 9, 2005